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Trip Report -	Field Test of	ORIG COMP		ASS C
		trip was made ted field testing	to ng of the AS-6 Autom	<u></u>
Data Transmissions	s System. Fartic	:rpecing in our	s test program were:	
2. The AS-6	data transmitter	and its compar	nion collector were :	field
ting collected dat	ta back to the AS	-6 base station	r the purpose of train transmission portion	
the system perform with	ned reliably and Although the co Le results, syste	continued two-wollection portion incompatibili	way contact was main on of the tests also ity, evidenced by RF	tained had

4. Several valuable results emerged from these tests despite our failure to achieve full system operation. It is evident that a switch or button to start the internal timer on the AS-6 and thus initiate a series of transmissions is absolutely necessary if any check-out of the final unit is desired before installation. Consequently, was asked to incorporate such a feature on the final AS-6 field unit to be delivered on 15 August 1959.

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7. The received a thorough field test and proved itself capable of keeping excellent time even when the AS-6 was being handled and transported. As a result, it was decided that the final field unit will be carried to its destination with the timer running, so that the installation party does not have to set and start the timer after the AS-6 is emplaced. A small cable will connect the timer to the radioiosotope power supply, AP-6, and keep it running until the equipment is installed. A decision by the operational representatives to place the power supply and the transmitter on the same back pack for reasons of weight distribution allows the AP-6 to be used as a "keeper" battery for the timer.	25>			
6. The AP-6 power supply was used to power the transmitter and collector and no difficulty arose after a minor problem was resolved by a field expedient. The 300VDC converter supplied by for inclusion in the box refused to start under load so the transmitter was modified to remove the load from the 300 volt line until the voltage appeared. The AP-6 was left at for duty-cycle measurements and continued system testing of the transmitter and collector.	25) 25) 25)			
7. The failure of the equipment to operate as a system resulted in the following additions to the ramaining portion of the program:	25X1			
technician will spend approximately one week beginning 2 June working with engineers to locate and eliminate the causes of RF feedback.	25X 25X1			
(b) A team will participate in the collector tests scheduled to begin approximately 22 June in will once again act as base station for the prototype field unit in an attempt to demonstrate complete two-way system operation. (Although all base	25) 25) 25)			
and field functions have been successfully tested at one time or another during the Washington, D.C. and it is considered desirable to demonstrate most conclusively that the operation is successful.)	25>			
(c)	25X			
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Declassified in Part - Sanitized Copy Approved for Release 2012/01/04: CIA-RDP78-03330A004100090089-6 CECOET COMMINEMINE 25X1 8. This extension of the testing program represents not only an increase in cost is including an extra \$5000.00 in a 25X1 no-fee overrun request), but sharply increases the pressure on both contractors during the final phase of the program. The base station cannot be changed to the operational frequencies until the test program is finished, and this may delay checkout of the final field unit. was told that it would be absolutely necessary to bring out data 25X1 leads in the final unit to permit testing of system compatibility by 25X1 means of a Visicorder in the event that a base station was not available. The base station must leave no later than 1 August in order 25X1 to be ready for operation at on 1 September. It was agreed that 25X1. ∠5X1 engineer responsible for the base station program, , would leave 1 August, delay briefly in Washington, and 25X1 arrive at approximately 10 August. 25X1 25X1 9. The AS-6 base station was inspected on a visit to on 11 May 1959. The equipment contains many improvements over the AS-4 and AS-4A 25X1 equipment including several of the packaging advances devised for the AS-5. Except for the incorporation of a remote control unit and switchover to the operational frequency, work on the base station is complete. 25X1 OC-E/IMB, who had just completed a four-week instruction 25X1 course in the AS-6, demonstrated to the writer several of the maintenance features pertinent to the AS-6. 25X1 Distribution: R+D Subject File Monthly Report

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